

CLAIMS

1. A system for operational reporting of multidimensional analysis of business data sources, the system comprising:

one or more data sources providing OLTP data;
a business intelligence (BI) platform having a multidimensional database providing OLAP data; and
a data abstraction layer having a unified view module configured to integrate the OLTP data with the multidimensional database to produce a common meta model data set; and

a user interface (UI) tool set for creating a unified UI for displaying reports that are run on the multidimensional database and common metal model data set.

2. A system in accordance with claim 1, further comprising a UI runtime module configured to display the unified UI.

3. A system in accordance with claim 1, further comprising a data acquisition module configured to acquire the OLTP data from the OLTP data source, and configured to provide the OLTP data to the multidimensional database or to the data abstraction layer.

4. A system in accordance with claim 1, wherein the BI platform is further configured to execute OLAP analysis on the multidimensional database.

5. A system in accordance with claim 4, wherein the BI platform further includes a communication channel connected to a remote OLAP data source.

6. A system in accordance with claim 3, wherein the data acquisition module further includes one or more resource adapters for connecting to the one or more data sources.

7. A system in accordance with claim 3, wherein the data acquisition module further includes one or more extraction programs configured to read data from the one or more data sources.

8. A system in accordance with claim 3, wherein the data acquisition module further includes an exchange infrastructure for message-based exchange between the one or more data sources and the BI platform.

9. A system in accordance with claim 1, further comprising a mapping tool for mapping a data model of the one or more data sources to a common metal model for use by the unified view module.

10. A system in accordance with claim 9, wherein the mapping is automatic.

11. A system in accordance with claim 9, wherein the mapping is manual.

12. A system in accordance with claim 4, wherein the BI platform further comprises a persistency memory for storing one or more tables representing the OLAP analysis.

13. A system in accordance with claim 1, wherein the unified UI is generated by a web application.

14. A system in accordance with claim 1, wherein the unified UI is generated by a desktop application.

15. An architecture for integrating online transactional processing (OLTP) systems with online analytical processing (OLAP) system, the architecture comprising:

a data access layer including one or more data access programs for accessing OLTP data;

a service layer including a business intelligence (BI) platform for generating OLAP data;

a data abstraction layer providing a common meta-model for OLTP data integrated with OLAP data; and

a user interface presentation layer configured to provide a user interface for displaying a report run on the integrated OLTP and OLAP data.

16. An architecture in accordance with claim 15, wherein the common meta-model is organized into a unified business query view for display in the user interface.

17. An architecture in accordance with claim 15, wherein the user interface presentation layer includes a design time module for generating the user interface.

18. An architecture in accordance with claim 17, wherein the user interface presentation layer includes a runtime module having an application for displaying the user interface.

19. An architecture in accordance with claim 18, wherein the application is a web application.

20. An architecture in accordance with claim 18, wherein the application is a desktop application.